User Manual

IP CAMERA

WARINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

CAUTION

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION：TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

COPYRIGHT

THE TRADEMARKS MENTIONED IN THE MANUAL ARE LEGALLY REGISTERED TO THEIR RESPECTIVE COMPANIES.

Content

I. PREFACE 4

II. PRODUCT SPECIFICATIONS 4

III. PRODUCT INSTALLATION 6

A. MONITOR SETTING 6
B. HARDWARE INSTALLATION AND I/O PIN ASSIGNMENT 7
C. IP ASSIGNMENT 10
D. INSTALL ACTIVEX CONTROL: 12

IV. LIVE VIDEO 14

V. CONFIGURATION 16

A. SYSTEM 17
B. NETWORK 20
C. A/V SETTING 29
D. EVENT LIST 34

VI. NETWORK CONFIGURATION 41

VII. FACTORY DEFAULT 43

VIII. PACKAGE CONTENTS 43

I. Preface

This is a Full HD 1080P 2- Mega Pixel CMOS IP camera with the web server built in. User can view real-time video via IE browser. It supports H.264, JPEG and MPEG4 video compression which provides smooth and high video quality. The video can be stored in the Micro SD card and playback remotely.
With user friendly interface, it is an easy-to-use IP camera which is designed for security application.

II. Product Specifications

- Mega-Pixel CMOS Sensor
- Digital Wide Dynamic Range
- Shutter Speed adjustion
- Sense Up adjustion
- Day&Night Switch time control manual
- Power over Ethernet
- IP66
- Bracket Management
- H.264/ JPEG/ MPEG4 compression
- Micro SD card backup(Option)
- Support iPhone/Android/Mac
- SDK for Software Integration
- Free Bundle 36 ch recording software

Specifications

Hardware	
CPU	ARM 9 ,32 bit RISC
RAM	128MB
Flash	16MB
Image sensor	1 / 4” Mega-Pixel CMOS sensor
Sensitivity	1.0 Lux @30fps (IR Off) 0 Lux @30fps (IR On)
Shutter Time	1 / 5 ~ 1 / 10,000 sec
Lens Type	3.3-12mm @ F1.4

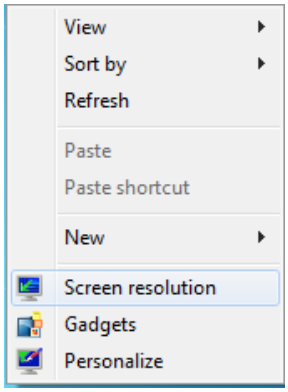
I/O	DI/DO
Power over Ethernet	Yes
Power	12V DC
Operating Temperature	-10°C ~ 45°C
Dimensions	83mm x 80mm x 127mm (H)
IR LEDs (Optional)	
LEDs	35 units
IR distance	20M
Network	
Ethernet	10/ 100 Base-T
Network Protocol	HTTP, HTTPS, SNMP, QoS/DSCP, Access list, IEEE 802.1X, RTSP, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP, SAMBA
System	
Video Resolution	1280x800@30fps,1280x720@30fps , 640x480@30fps, 320x240@30fps, 176x144@30fps
Video Adjust	Brightness, Contrast, Hue, Saturation, Sharpness, AGC, Shutter Speed adjustion, Sense-Up, D-WDR, Flip, Mirror, Noise reduction, Exposure, Day&Night adjustion
Triple Streaming	Yes
Image Snapshot	Yes
Full Screen Monitoring	Yes
Privacy Mask	Yes, 3 different areas
Compression Format	H.264/ JPEG/ MPEG4
Video Bitrates Adjust	CBR, VBR
Motion Detection	Yes, 3 different areas
Triggered Action	Mail, FTP, Save to SD card, DO, SAMBA
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, 802.1X port-based authentication for network protection, QoS/DSCP
Firmware Upgrade	HTTP mode, can be upgraded remotely
Simultaneous Connection	Up to 10
SD card management (Option)	
Recording Trigger	Motion Detection, IP check, Network break down (wire only),Schedule, DI
Video Format	AVI, JPEG
Video Playback	Yes

Delete Files	Yes
Web browsing requirement	
OS	Windows 7, 2000, XP, 2003, Microsoft IE 6.0 or above
Hardware	
Suggested	Intel Dual Core 2.53G,RAM: 1024MB, Graphic card: 128MB

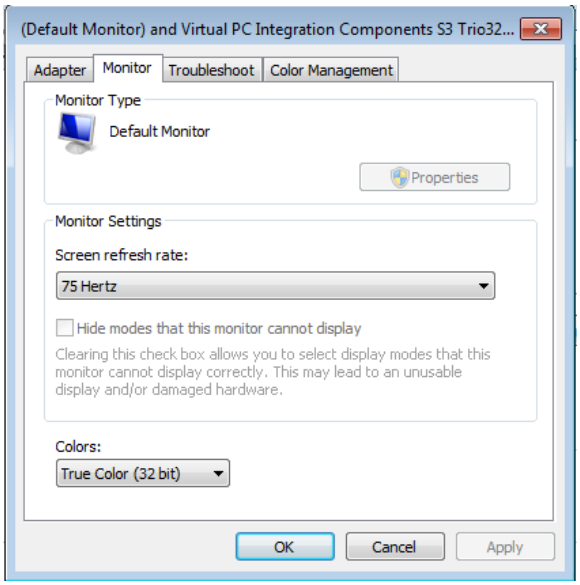
III. Product Installation

A. Monitor Setting

i. Right-Click on the desktop. Select " Properties"

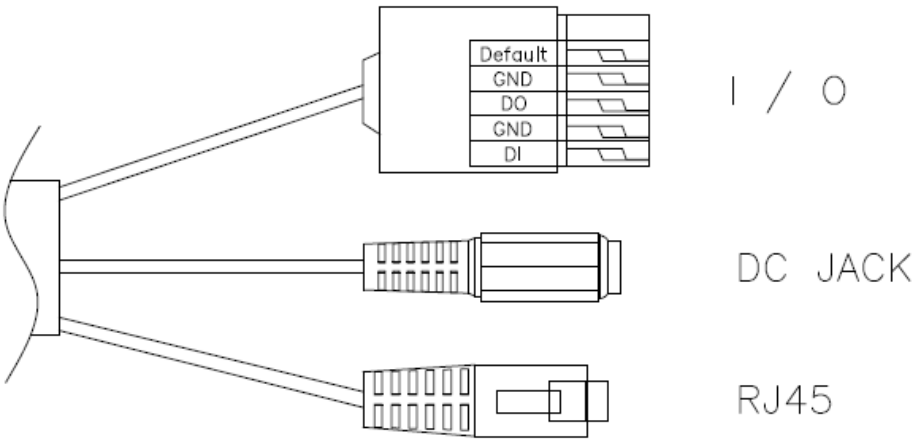


ii. Change color to True Color (32bit).



B. Hardware Installation and I/O Pin Assignment

i. Connect a power adapter and IP Camera to PC or local network



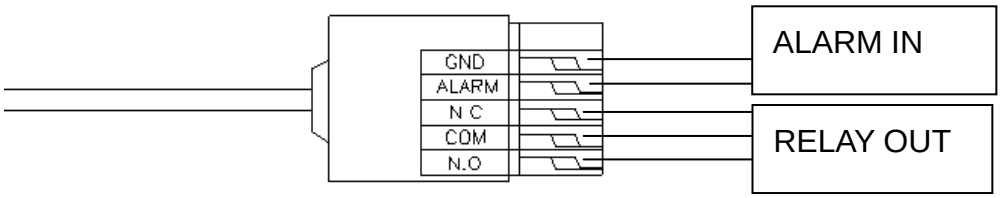
ii. I/O Control Instruction

I/O terminal connector – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

1. Digital Input (GND+Alarm) – An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active.

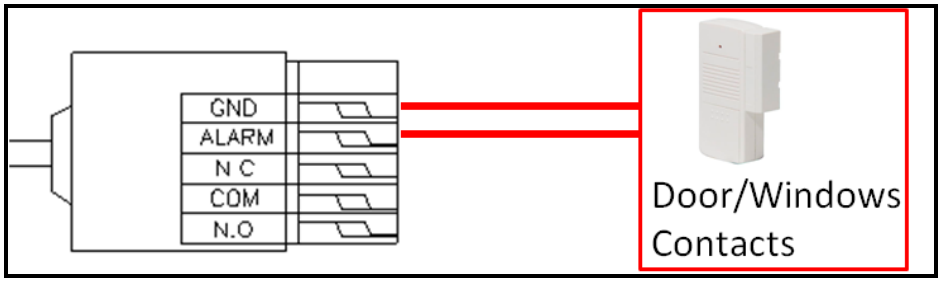
Digital Input
1. GND (Ground) : Initial state is LOW
2.DI : Max. 50mA, DC 5V

Digital Output
1.DO : DC 5V
2. COM: (Common)
3. N.O. (Normally Open): Max. 1A, 24VDC or 0.5A, 125VAC



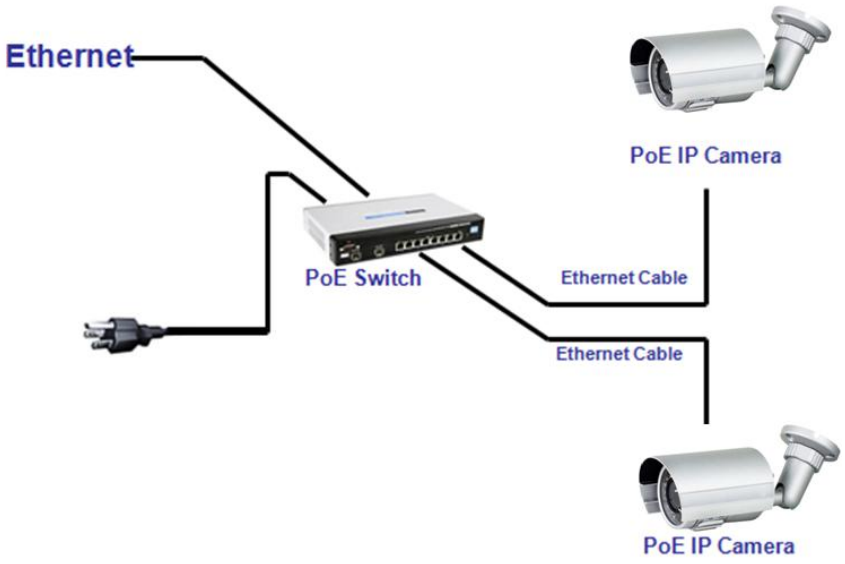
Relay

1. Digital Input connection

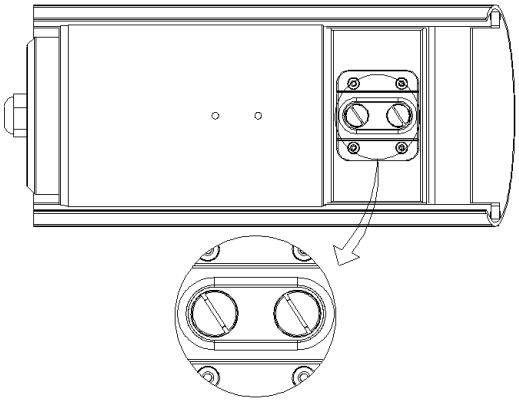


iii. PoE (Power Over Ethernet)(Optional) **802.3af, 15.4W PoE Switch is recommended**

Power over Ethernet (PoE) is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to the network device, such as an IP phone or a network camera, using the same cable as that used for network connection. It eliminates the need for power outlets at the camera locations and enables easier application of uninterruptible power supplies (UPS) to ensure 24 hours a day, 7 days a week operation.



iv. This IP camera belongs to external varifocal lens adjustment camera. Please adjust “**ZOOM**” first and “**FOCUS**” in the following to complete the adjustment.



C. IP Assignment

i. Use the software, “IP Installer” to assign the IP address of IP CAMERA. The software is in the attached software CD.

ii. IP installer supports two languages
   a. IPInstallerCht.exe：Chinese version
   b. IPInstallerEng.exe：English version

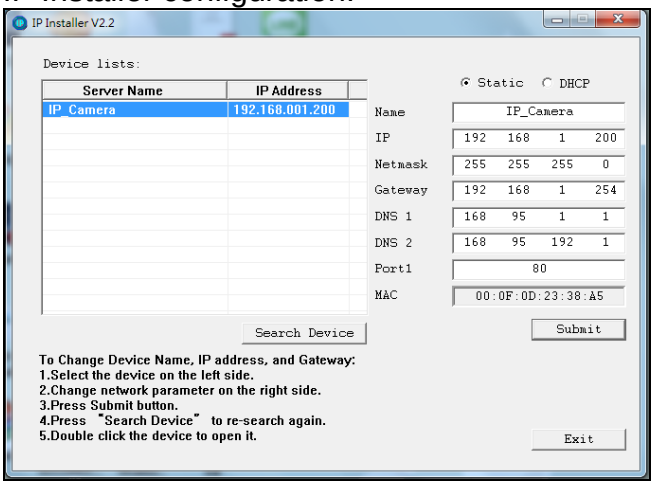
iii. There are 3 kinds of IP configuration.
   a. Fixed IP (Public IP or Virtual IP)
   b. DHCP (Dynamic IP)
   c. Dial-up (PPPoE)

iv. Execute IP Installer

v. For Windows XP SP2 user, it may popup the following message box. Please click “Unblock”.

Windows Security Alert
To help protect your computer, Windows Firewall has blocked some features of this program.
Do you want to keep blocking this program?
Name: IPInstaller V2.1 Network Device Scan
Publisher: Unknown
Keep Blocking
Unblock
Ask Me Later
Windows Firewall has blocked this program from accepting connections from the Internet or a network. If you recognize the program or trust the publisher, you can unblock it. When should I unblock a program?

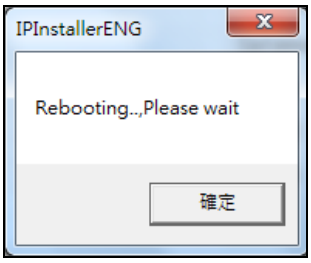
vi. IP Installer configuration:



vii. IP Installer will search all IP Cameras connected on Lan. The user can click “Search Device” to search again.

viii. Click one of the IP Camera listed on the left side. The network configuration of this IP camera will show on the right side. You may

change the “name” of the IP Camera to your preference (eg: Office, warehouse). Change the parameter and click “Submit” then click “OK”. It will apply the change and reboot the Device.



ix. Please make sure the subnet of PC IP address and IP CAM IP address are the same.

The same Subnet:

IP CAM IP address: 192.168.1.200

PC IP address: 192.168.1.100

Different Subnets:

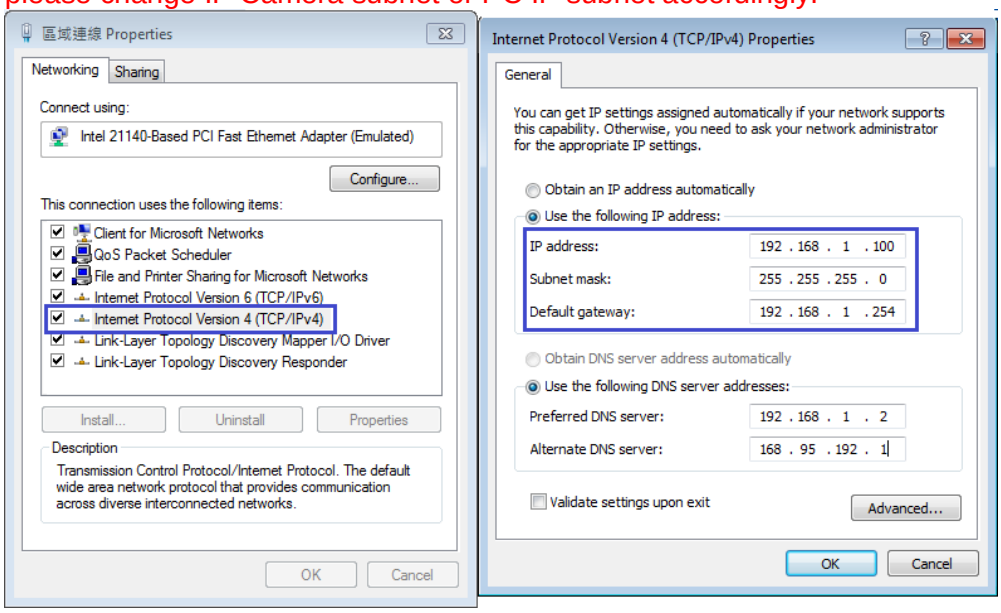
IP CAM IP address: 192.168.2.200

PC IP address: 192.168.1.100

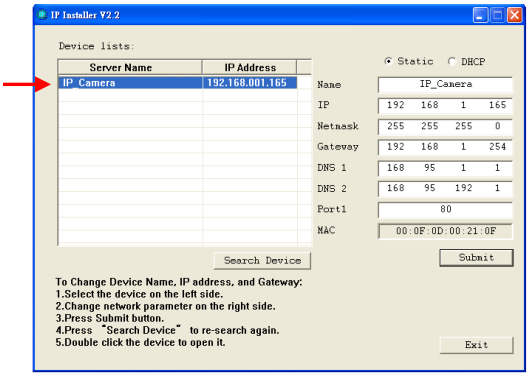
To Change PC IP address:

Control Panel→Network Connections→Local Area Connection Properties→Internet Protocol (TCP/IP) →Properties

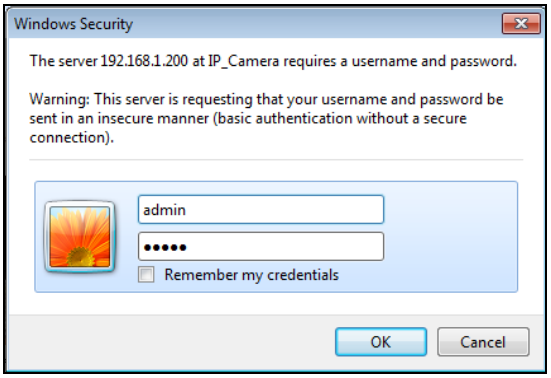
Please make sure your IP Camera and PC have the same Subnet. If not, please change IP Camera subnet or PC IP subnet accordingly.


區域連線 Properties
Networking
Sharing
Connect using:
Intel 21140-Based PCI Fast Ethernet Adapter (Emulated)
Configure...
This connection uses the following items:
Client for Microsoft Networks
QoS Packet Scheduler
File and Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
Internet Protocol Version 4 (TCP/IPv4)
Link-Layer Topology Discovery Mapper I/O Driver
Link-Layer Topology Discovery Responder
Install...
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK
Cancel
Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 1 . 100
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 1 . 254
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 192 . 168 . 1 . 2
Alternate DNS server: 168 . 95 . 192 . 1
Validate settings upon exit
Advanced...
OK
Cancel

x. A quick way to access remote monitoring is to left-click the mouse twice on a selected IP Camera listed on “Device list” of IP Installer. An IE browser will be opened.



xi. Then, please key in the default “user name: admin” and “password: admin”.


Windows Security
The server 192.168.1.200 at IP_Camera requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
admin
Remember my credentials
OK
Cancel

D. Install ActiveX control:

For the first time to view the camera video via IE, it will ask you to install the ActiveX component.

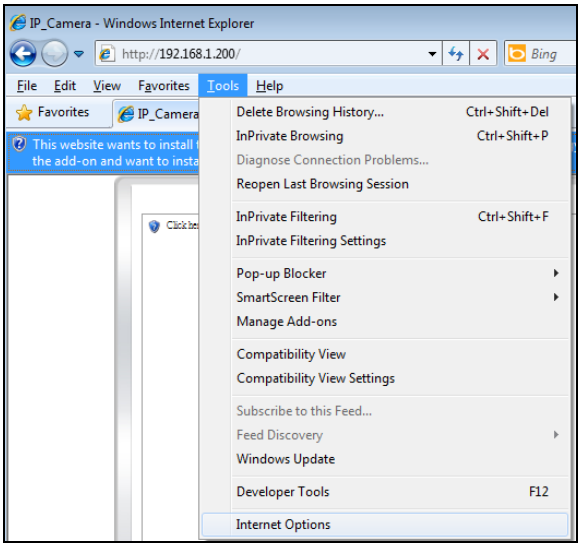
IP_Camera - Windows Internet Explorer
http://192.168.1.200/
Bing
Favorites
IP_Camera
This website wants to install the following add-on: 'WEBWATCH2.cab' from ''
., Ltd.'. If you trust the website and
the add-on and want to install it, click here...

If the installation failed, please check the security setting for the IE browser.

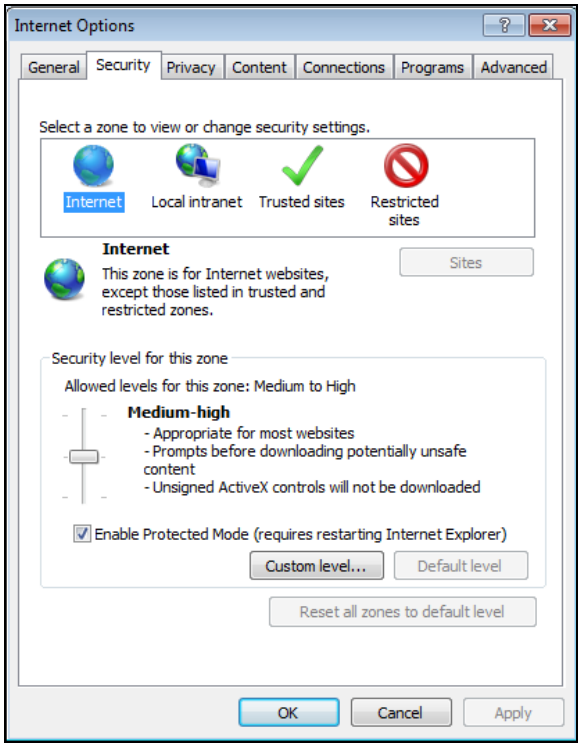
i. IE → Tools → Internet Options… → Security Tab → Custom Level… → Security Settings → Download unsigned ActiveX controls→ Select “Enable” or Prompt.

ii. IE → Tools → Internet Options… → Security Tab → Custom Level… →Initialize and script ActiveX controls not marked as safe → Select “Enable” or Prompt.

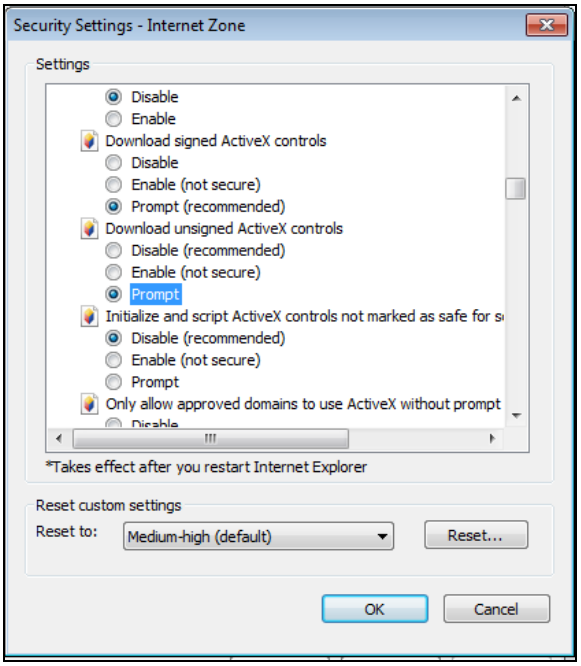
1



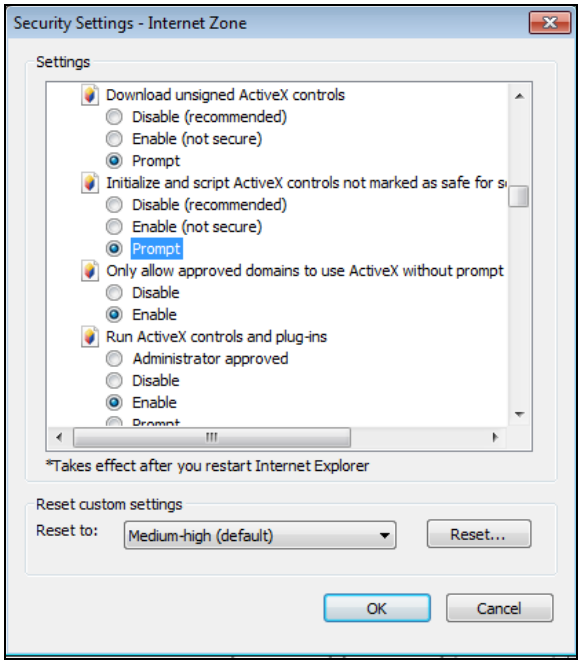
2


Internet Options
General Security Privacy Content Connections Programs Advanced
Select a zone to view or change security settings.
Internet
Local intranet
Trusted sites
Restricted sites
Internet
This zone is for Internet websites, except those listed in trusted and restricted zones.
Sites
Security level for this zone
Allowed levels for this zone: Medium to High
Medium-high
- Appropriate for most websites
- Prompts before downloading potentially unsafe content
- Unsigned ActiveX controls will not be downloaded
Enable Protected Mode (requires restarting Internet Explorer)
Custom level...
Default level
Reset all zones to default level
OK
Cancel
Apply

3

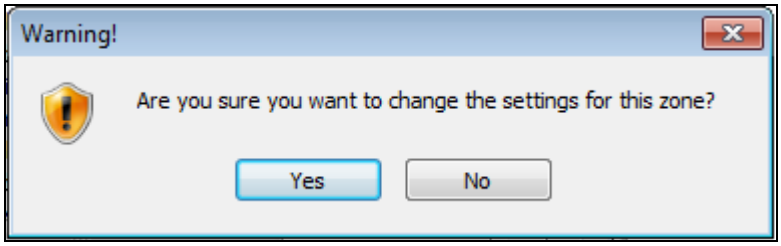


4



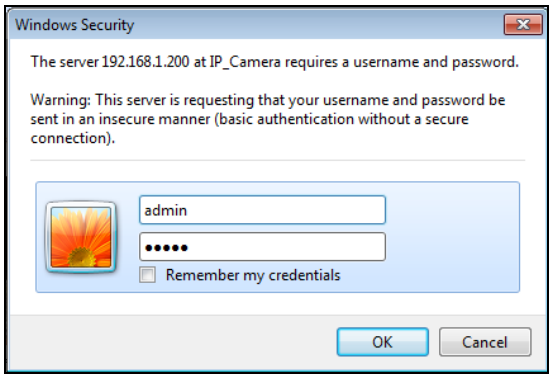
5

When popup the following dialogue box, click “Yes”.

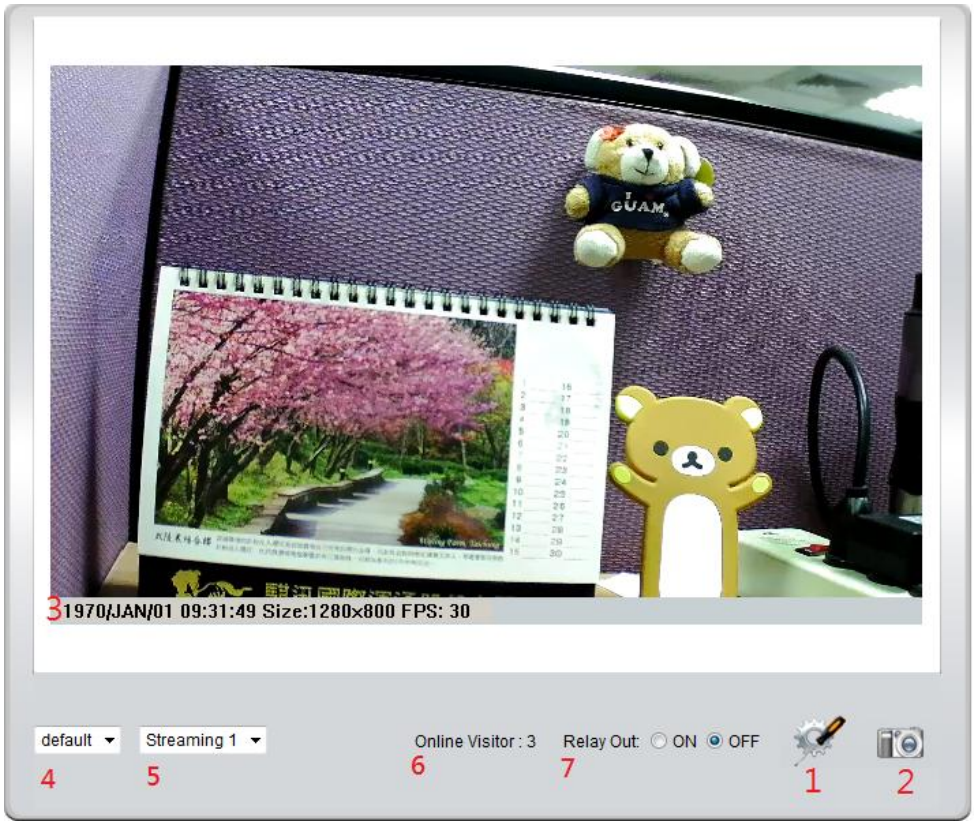


IV. Live Video

Start a IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the user name and password. The default user name and password are “**admin**” and “**admin**”.


Windows Security
The server 192.168.1.200 at IP_Camera requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
admin
Remember my credentials
OK
Cancel

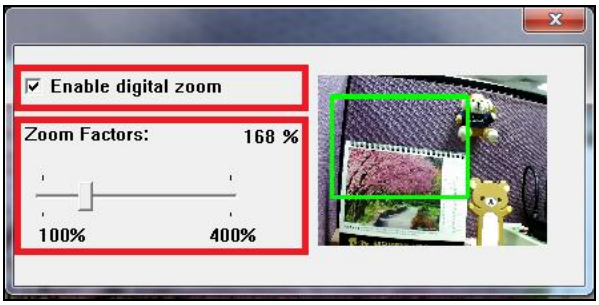
When connect to the IP CAMERA。The following program interface shows.



1. ：Get into the administration page
2. ：Video Snapshot
3. Show system time, video resolution, and video refreshing rate
4. Adjust image, 1/2x, 1x, 2x
5. Select video streaming source **(When streaming 2 setting in『Video Setting』 is closed, this function will not display)**
6. Shows how many people connect to this IP camera
7. Control the relay output which is connected to this camera.

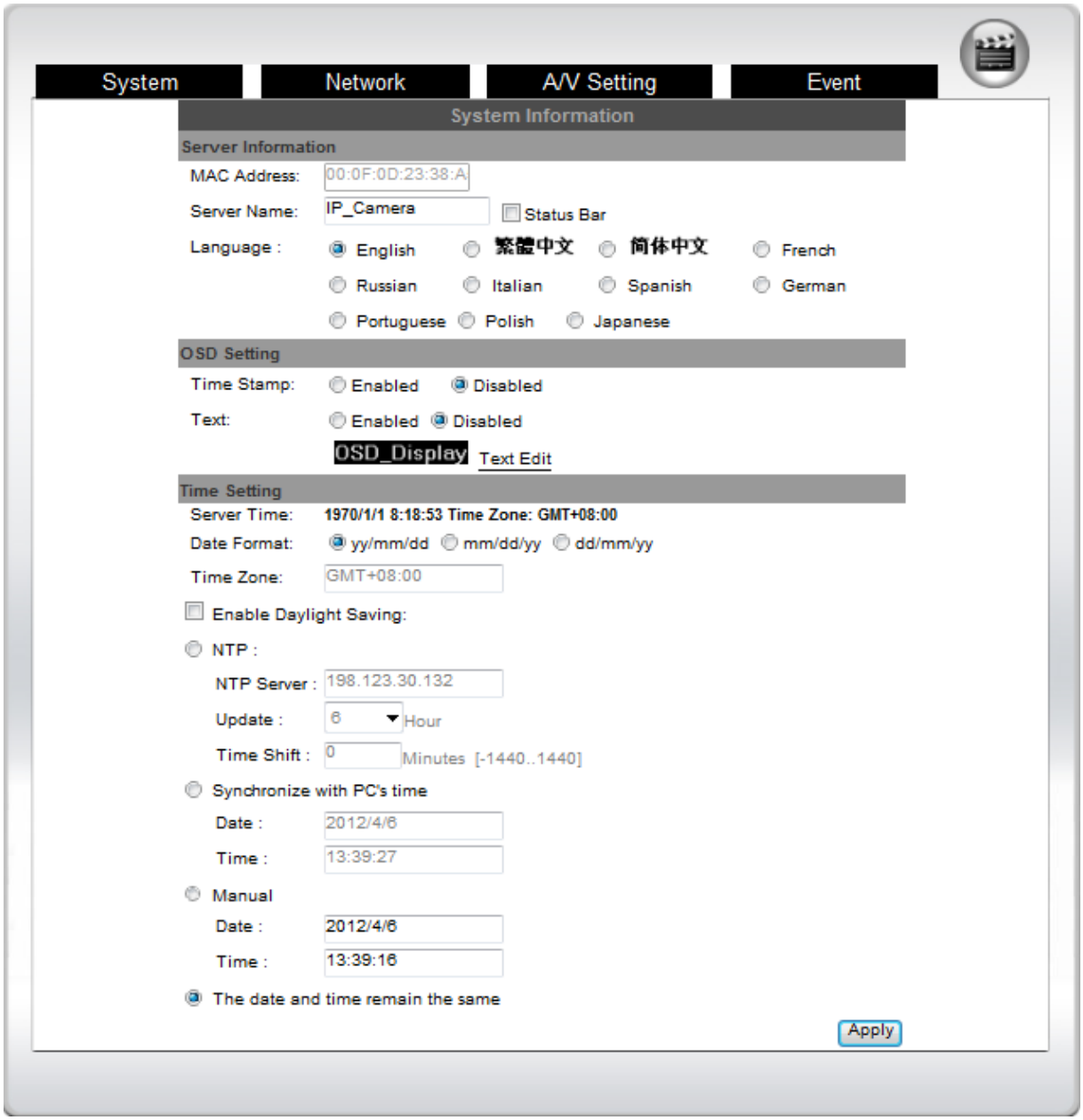
Double-click the video, it will change to full screen mode. Press “Esc” or double-click the video again, it will change back to normal mode.
Right-Click the mouse on the video, it will show a pop-up menu.

1. Snapshot：Save a JPEG picture
2. Record Start：Record the video in the local PC. It will ask you where to save the video. To stop recording, right-click the mouse again. Select “Record Stop”. The video format is AVI. Use Microsoft Media Player to play the recorded file.
3. Mute：Turn of the audio. Click again to turn on it.
4. Full Screen：Full-screen mode.
5. Zoom: Enable zoom-in and zoom-out functions. Select “Enable digital zoom” option first within the pop-up dialogue box and then drag and drop the bar to adjust the zoom factors.



V. Configuration

Click to get into the administration page. Click to go back to the live video page.

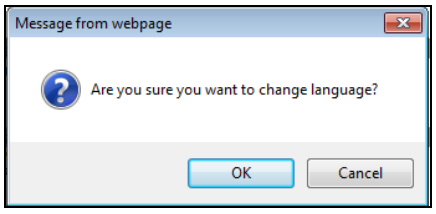


A.System

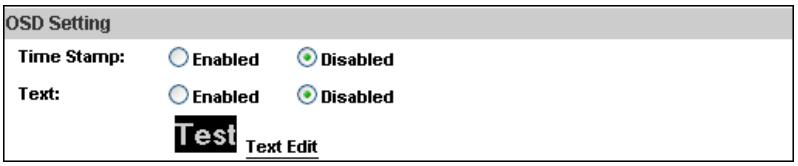
i、 System Information

a. Server Information: Set up the camera name, select language, and set up the camera time.

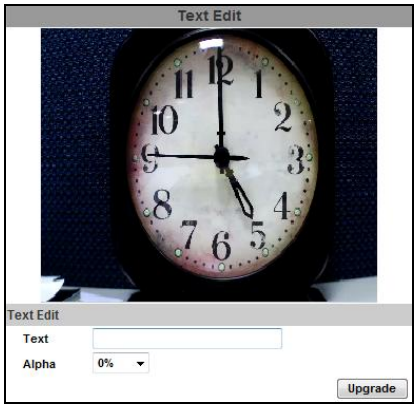
1. Server Name：This is the Camera name. This name will show on the IP Installer.
2. Select language：There are English, Traditional Chinese, and Simplified Chinese to select. When change, it will show the following dialogue box for the confirmation of changing language.



b. OSD Setting: Select a position where date & time stamp / text showing on screen.

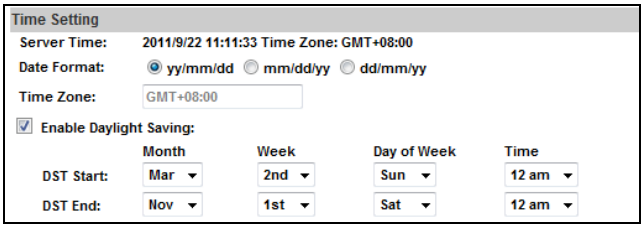


Moreover, click Text Edit can entry to adjust the OSD contents which is including Size and Alpha of text. Finally, click Upgrade button to reserve the setting.

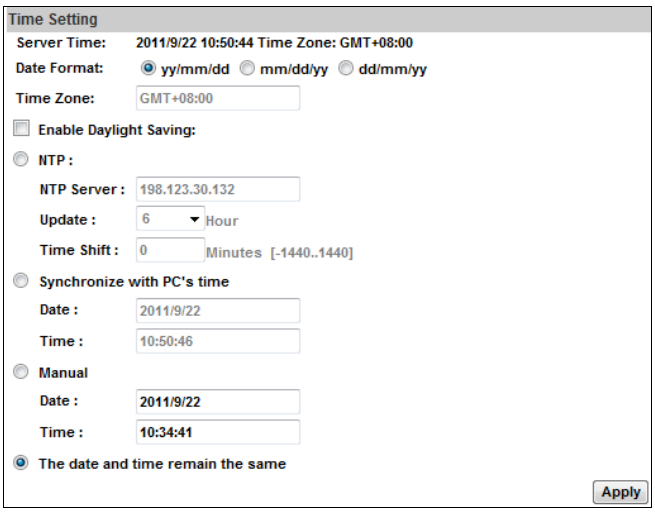


c. Time setting：

1. Daylight Saving Time(DST)：Select “Enable Daylight Saving”, There are DST Start and DST End can be set.

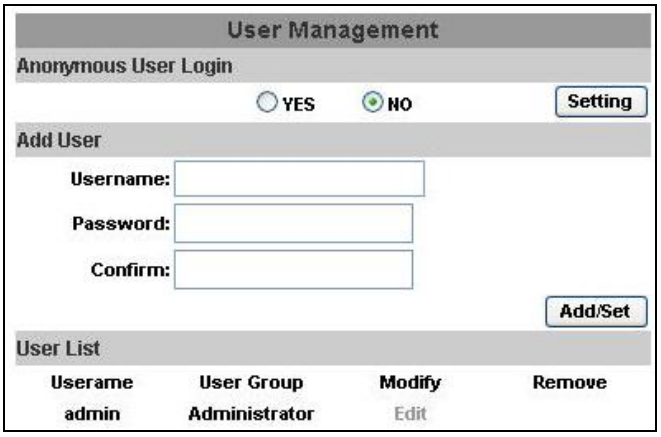

Time Setting
Server Time: 2011/9/22 11:11:33 Time Zone: GMT+08:00
Date Format: yy/mm/dd mm/dd/yy dd/mm/yy
Time Zone: GMT+08:00
Enable Daylight Saving:
Month Week Day of Week Time
DST Start: Mar 2nd Sun 12 am
DST End: Nov 1st Sat 12 am

2. Server Time Setting：Select options to set up time - “NTP”, “Synchronize with PC’s time”, “Manual”, “The date and time remain the same”.



ii、 User Management

IP CAMERA supports three different users, administrator, general user, and anonymous user.



a. Anonymous User Login：

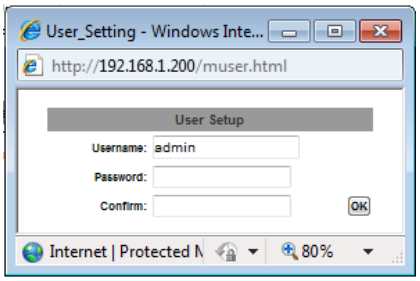
Yes：Allow anonymous login

No：Need user name & password to access this IP camera

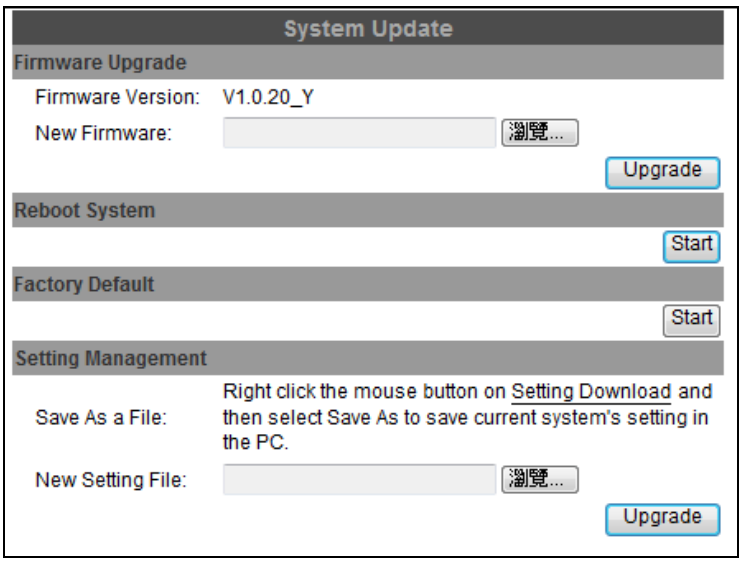
b. Add user：

Type the user name and password, then click “Add/Set”.

c. Click “edit” or “delete” to modify the user.



iii、 System update：



a. To update the firmware online, click “Browse…” to select the firmware. Then click “Upgrade” to proceed.

b. Reboot system：re-start the IP camera

c. Factory default：delete all the settings in this IP camera.

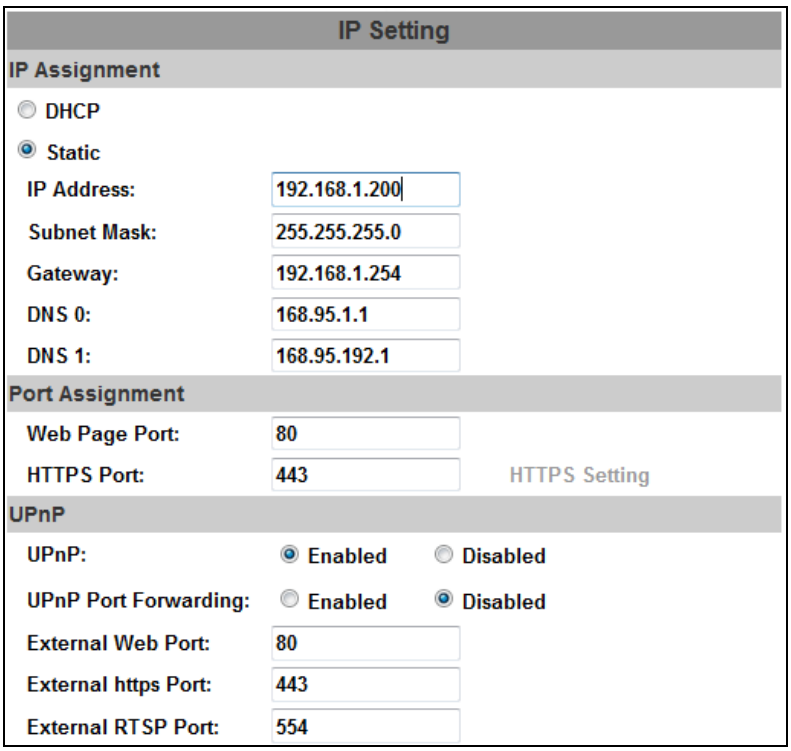
d. Setting Management：User may download the current setting to PC, or upgrade from previous saved setting.

1. Setting download:
   Right-click the mouse button on Setting Download → Select “Save AS…” to save current IP CAM setting in PC → Select saving directory → Save
2. Upgrade from previous setting
   Browse → search previous setting → open → upgrade → Setting update confirm → click **index.html**. to return to main page

B.Network

i、 IP Setting

IP Camera supports DHCP and static IP.



a. DHCP：Using DHCP, IP Camera will get all the network parameters automatically.

b. Static IP：Please type in IP address, subnet mask, gateway, and DNS manually.

c. Port Assignment: user may need to assign different port to avoid conflict when setting up IP assignment.

   1. Web Page Port: setup web page connecting port and video transmitting port (Default: 80)
   2. HTTPs Port: setup the https port(Default: 443)

d. UPnP

   This IP camera supports UPnP, If this service is enabled on your computer, the camera will automatically be detected and a new icon will be added to “My Network Places.”

   UPnP Port Forwarding：Enable UPnP Port Forwarding can access the Network Camera from the Internet, select this option to allow the Network Camera to open ports on the router automatically so

that video streams can be sent out from a LAN. There are three External port can be set, Web Port, Http Port and RTSP port. To utilize of this feature, make sure that your router supports UPnPTM and it is activated.

Note: *UPnP must be enabled on your computer.*

Please follow the procedure to activate UPnP

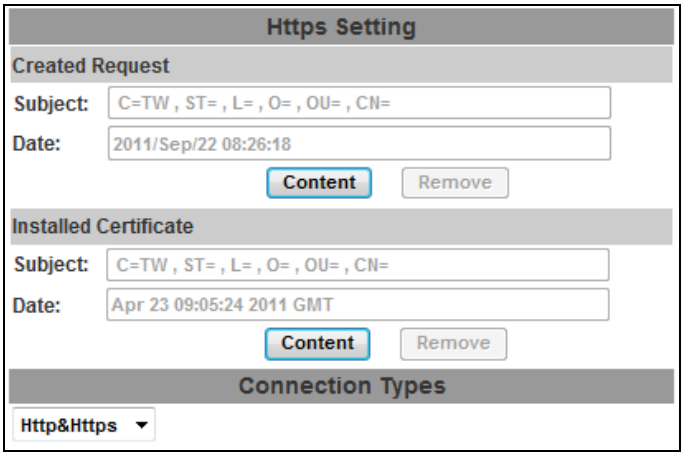
1. *open the* ***Control Panel*** *from the* ***Start Menu***
2. *Select* ***Add/Remove Programs***
3. *Select* ***Add/Remove Windows Components*** *and open* ***Networking Services*** *section*
4. *Click* ***Details*** *and select* ***UPnP*** *to setup the service*
5. *The IP device icon will be added to "MY Network Places"*
6. *User may double click the IP device icon to access IE browser*

e. RTSP setting

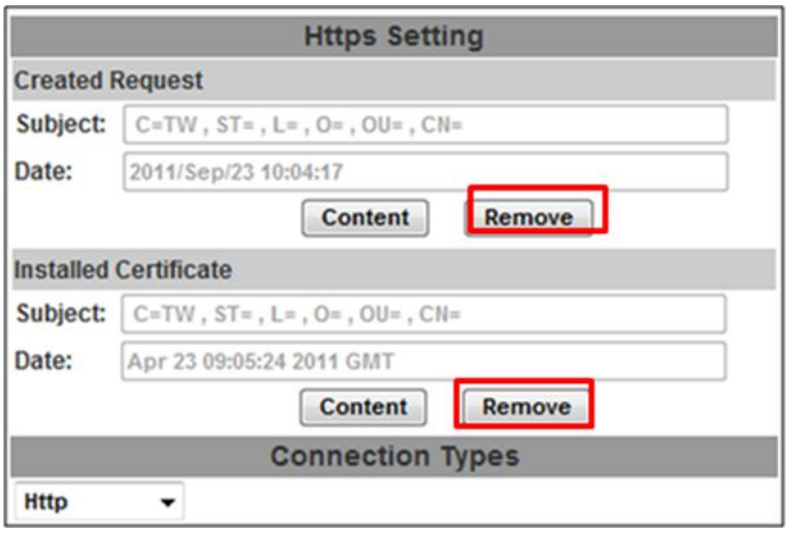
1. RTSP Server: enable or disable
2. RTSP Port: setup port for RTSP transmitting (Default: 554)
3. RTP Start and End Port: in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTP Start and End Port.

ii、 Advanced：

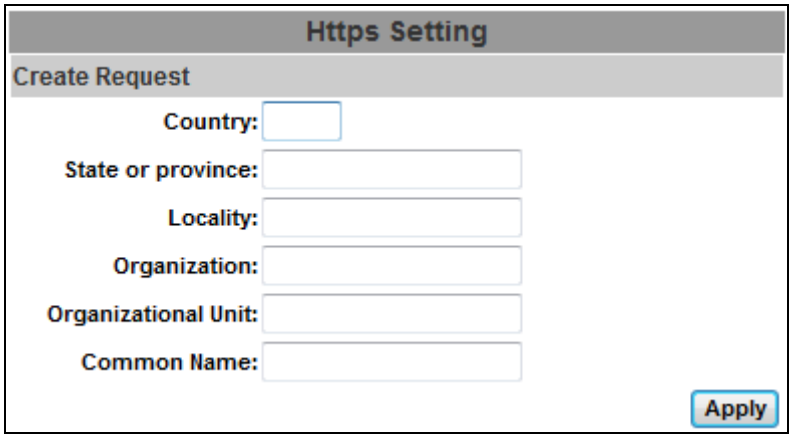
a. Https (Hypertext Transfer Protocol Secure)：Https can help protect streaming data transmission over the internal on the higher security level.



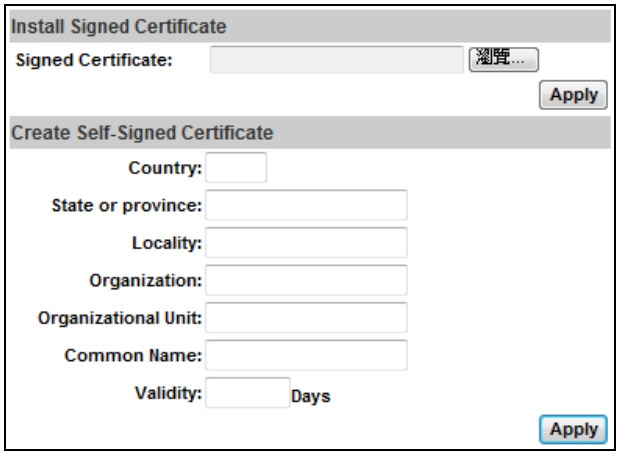
Https setting：Before setting new request, please remove old secure identification identification at Http connection type.



1. Created Request: remove secure identification in Created request mode. There is a warning message showing. Please set “Yes” to remove secure identification.
2. Setting the secure identification and apply it.



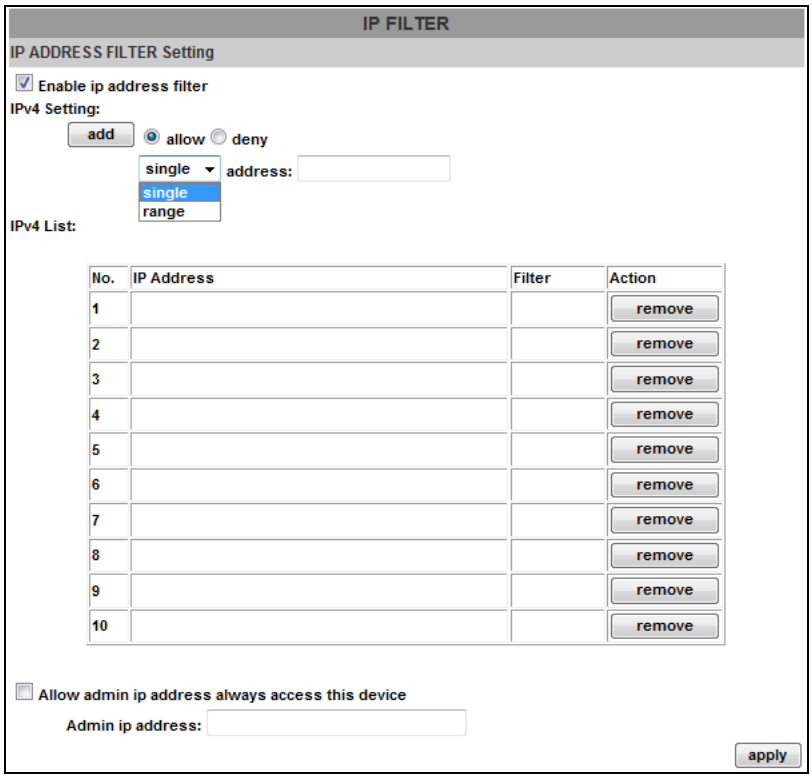
3. Installed Certificate: remove Certificate in .Installed Certificate mode. There will be a warning message to check again.
4. There are two ways to set Certificate- Install Signed Certificate and Create Self-Signed Certificate.



b. SNMP(Simple Network Management Protocol)：

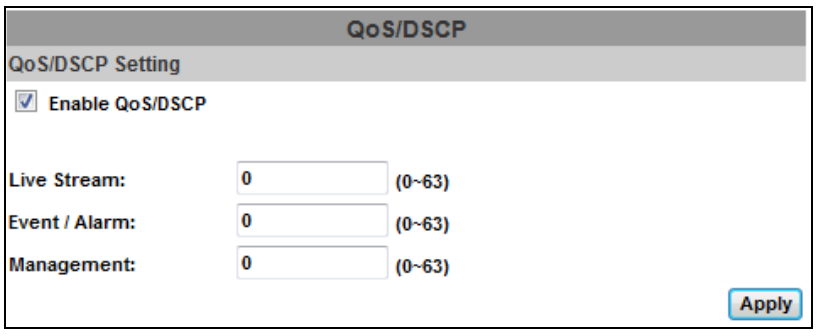
1. Enable SNMPv1 or SNMPv2 and write the name of Write Community and Read Community.
2. Enable SNMPv3, please set Security Name, Authentication Type, Authentication Password, Encryption Type, Encryption Password of Write mode and Read mode.
3. Enable SNMPv1/SNMPv2 Trap can detect the Trap server. Please set what event need to detect.

c. Access list：”Enable IP address filter” can set IP address which can allow or deny to this camera. There are two options, single and range, for user to set the IP address.



d. QoS/DSCP(Quality of Server/Differentiated Services Code-point)：

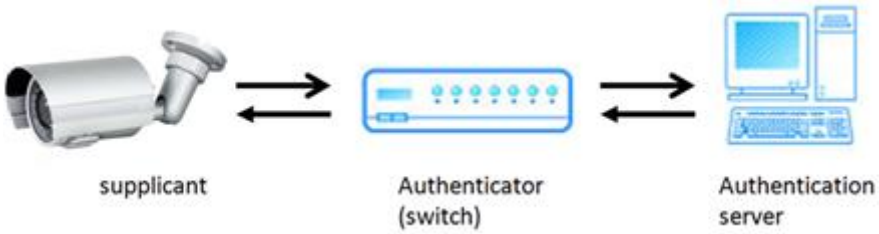
DSCP specifies a simple mechanism for classifying and managing network traffic and provide QoS on IP networks. DSCP is a 6-bit in the IP header for packet classification purpose. Please define the reserve for Live Stream, Event / Alarm and Management.



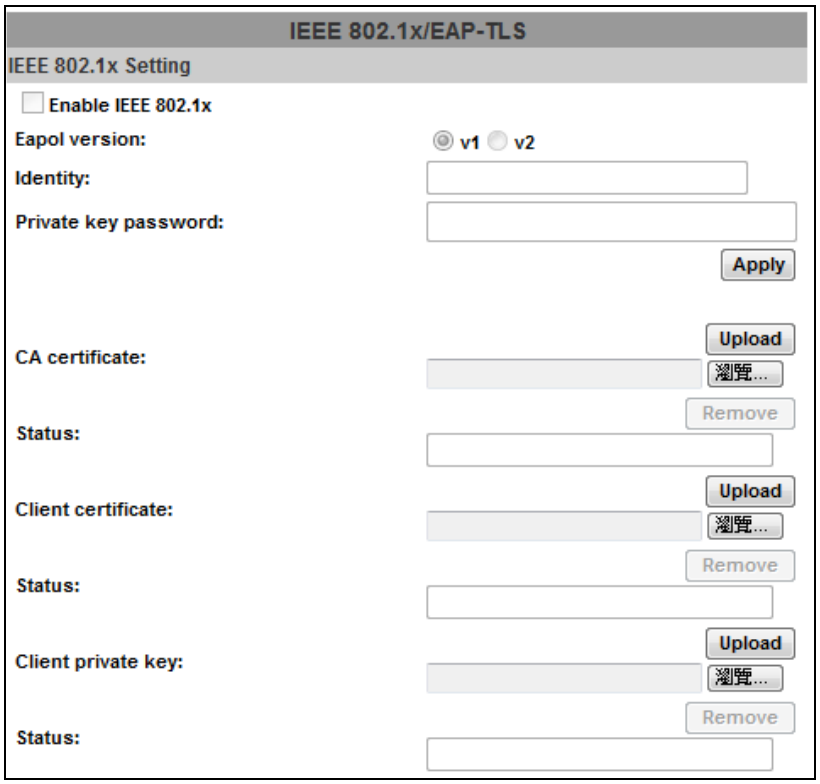
e. IEEE 802.1x：

IEEE 802.1x is an IEEE standard for port-based Network Access Control. It provides an authentication mechanism to device wishing to attach to a LAN or WLAN.

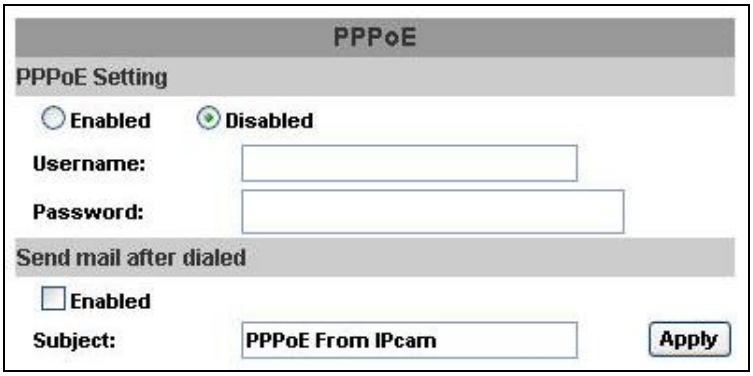
The EAPOL protocol support service identification and optional point to point encryption over the local LAN segment.



Please check what version of the authenticator and authentication server support. This camera supports EAP-TLS method. Please enter ID, passwoard issued by the CA, then upload related certificates.



iii、 PPPoE & DDNS：



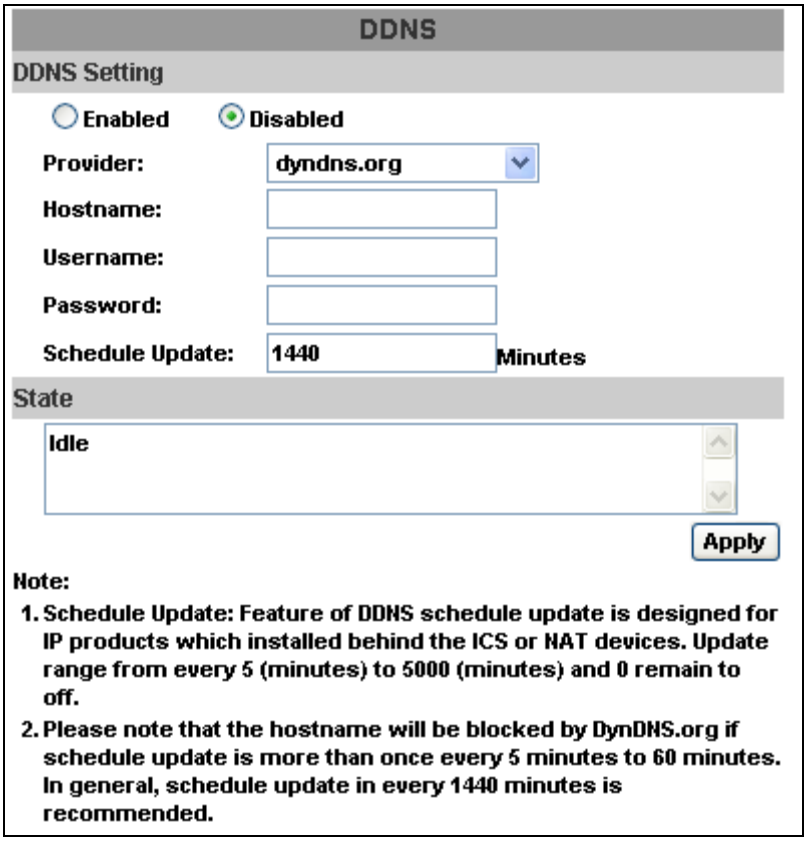
a. PPoE：Select “Enabled” to use PPPoE. Key-in Username and

password for the ADSL connection. Send mail after dialed：When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to “Mail and FTP” settings.

b. DDNS：

It supports DDNS (Dynamic DNS) service.

1. DynDNS：


DDNS
DDNS Setting
Enabled
Disabled
Provider:
dyndns.org
Hostname:
Username:
Password:
Schedule Update:
1440
Minutes
State
Idle
Apply
Note:
1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

(1) Enable this service

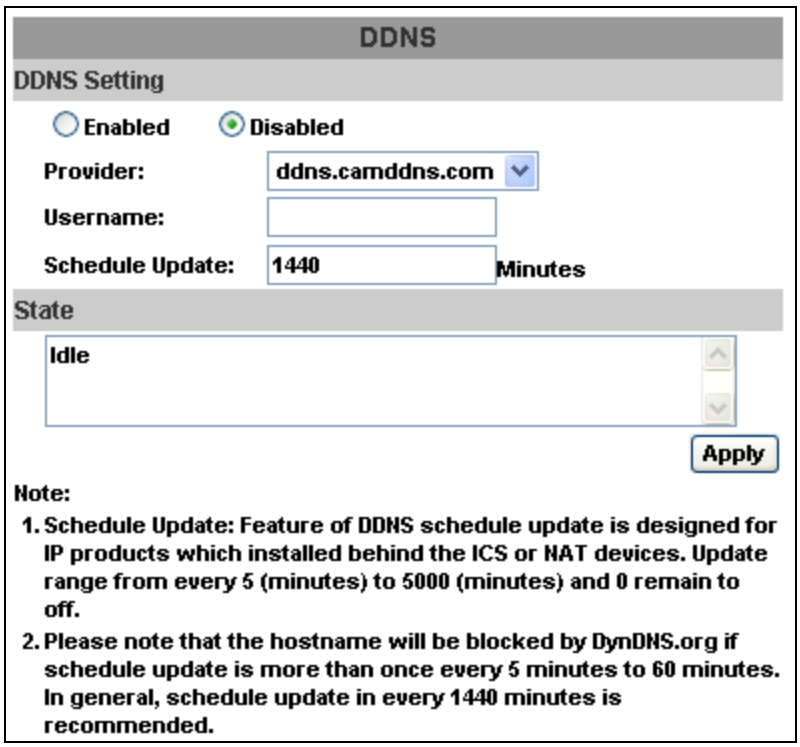
(2) Key-in the DynDNS server name, user name, and password.

(3) Set up the IP Schedule update refreshing rate.

(4) Click “Apply”

(5) If setting up IP schedule update too frequently, the IP may be blocked. In general, schedule update every day (1440 minutes) is recommended

2. Camddns service：

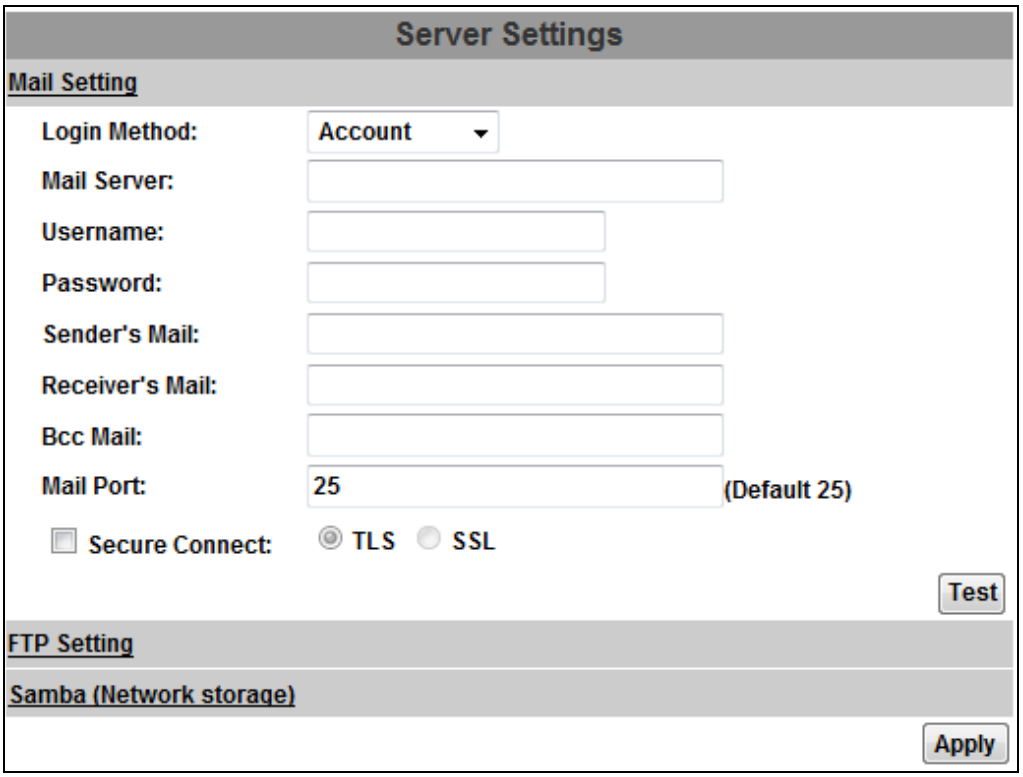

DDNS
DDNS Setting
Enabled
Disabled
Provider:
ddns.camddns.com
Username:
Schedule Update:
1440
Minutes
State
Idle
Apply
Note:
1. Schedule Update: Feature of DDNS schedule update is designed for IP products which installed behind the ICS or NAT devices. Update range from every 5 (minutes) to 5000 (minutes) and 0 remain to off.
2. Please note that the hostname will be blocked by DynDNS.org if schedule update is more than once every 5 minutes to 60 minutes. In general, schedule update in every 1440 minutes is recommended.

1. Please enable this service
2. Key-in user name.
3. IP Schedule update is default at 5 minutes
4. Click “Apply”.
3. DDNS Status
   (1) Updating：Information update
   (2) Idle：Stop service
   (3) DDNS registration successful, can now log by http://<username>.ddns.camddns.com：Register successfully.
   (4) Update Failed, the name is already registered：The user name has already been used. Please change it.
   (5) Update Failed, please check your internet connection：Network connection failed.
   (6) Update Failed, please check the account information you provide：The server, user name, and password may be wrong.

iv、 Server setting

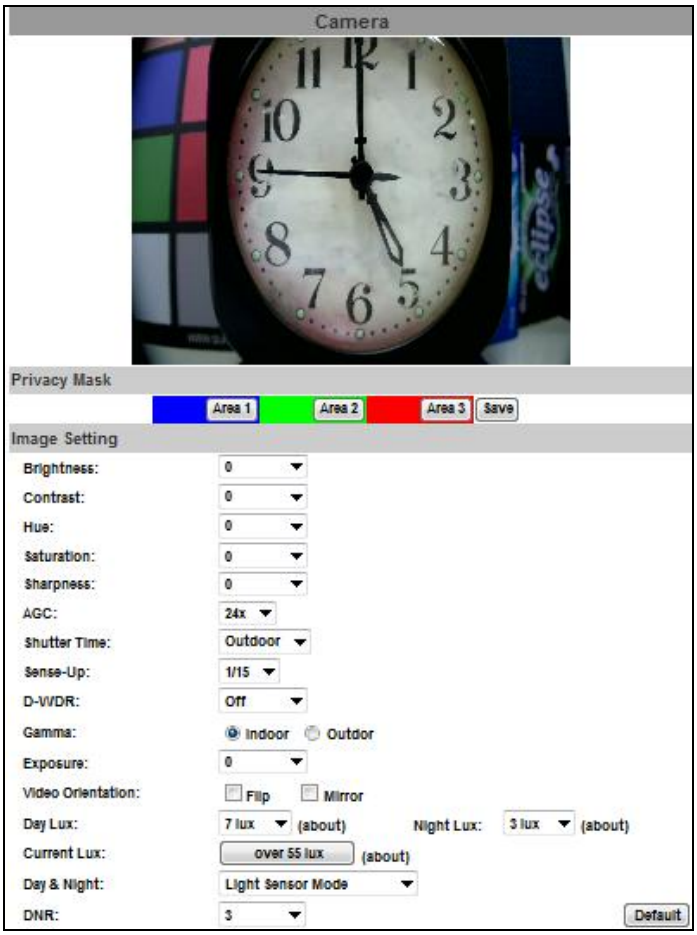
There are three choices of server types available: Email, FTP and SAMBA. Select the item to display the detailed configuration options. You can configure either one or all of them.

To send out the video via mail of ftp, please set up the configuration first.


Server Settings
Mail Setting
Login Method:
Account
Mail Server:
Username:
Password:
Sender's Mail:
Receiver's Mail:
Bcc Mail:
Mail Port:
25
(Default 25)
Secure Connect:
TLS
SSL
Test
FTP Setting
Samba (Network storage)
Apply

C.A/V Setting

i、 Image Setting



For the security purpose, there are three areas can be setup for privacy mask. Click Area button first and pull a area on the above image. Finally, click Save button to reserve the setting.

Adjust “Brightness”, “Contrast”, “Hue”, “Saturation”, “Sharpness”,” AGC”, “Shutter Time”, “Sens-UP”, “D-WDR”, “Indoor”, “Outdoor”, “Exposure” to get clear video.

Moreover, IP CAMERA supports “Night Mode” and “Video Orientation”.

ii、 Video Setting

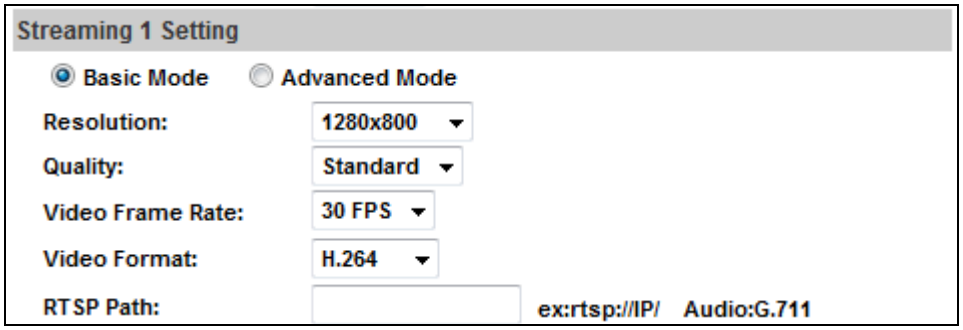
User may select 2 streaming output simultaneously:

Streaming 1 Setting: Basic mode and Advanced mode

Streaming 2 Setting: Basic mode, Advanced mode, and 3GPP mode

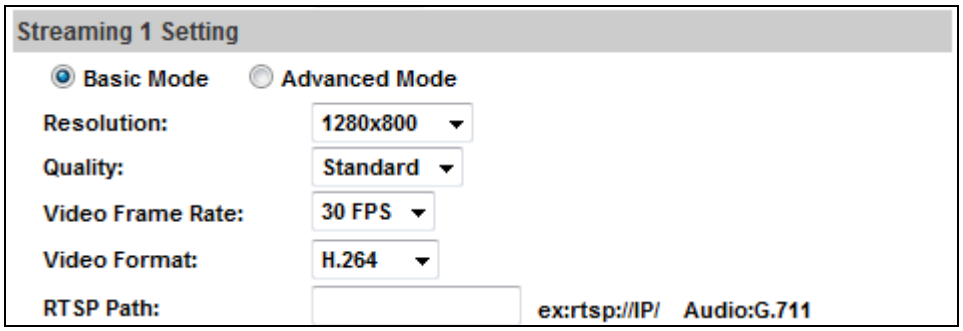
Video System: click the drop down list to select the system type

a. Streaming 1 Basic Mode：



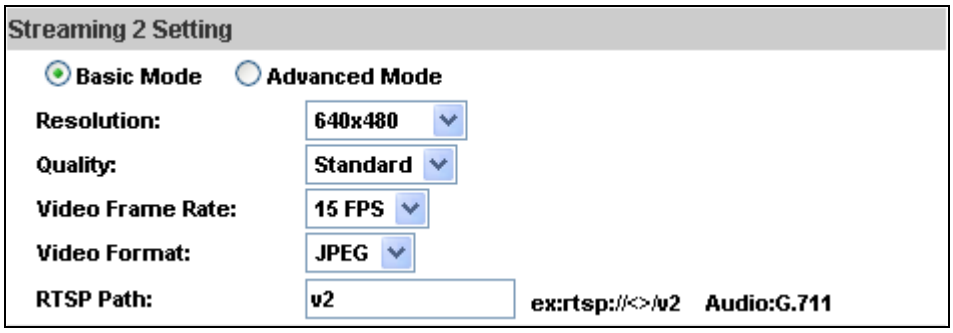
1. Resolution：
   There are 5 resolutions can be chosen.
   1280x800@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps
2. Quality：
   There are 5 levels to adjust:
   Best/ High/ Standard/ Medium/ Low
   The higher the quality is, the bigger the file size is. Also not good for internet transmitting
3. Video Frame Rate：The video refreshing rate per second.
4. Video Format：H.264 or MJPEG or MPEG4
5. RTSP Path: RTSP output name

b. Streaming 1 Advanced Mode：



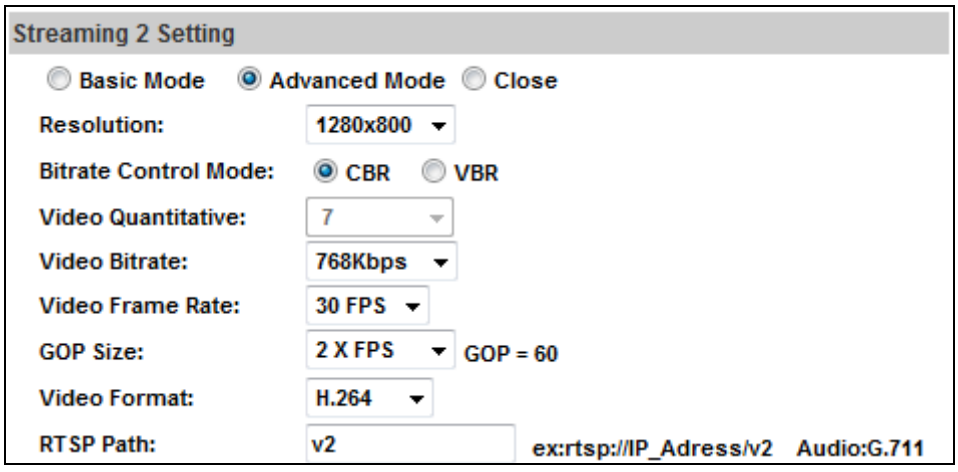
1. Resolution：
   There are 5 resolutions can be chosen.
   1280x800@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps
   Bitrate Control Mode
   There are CBR〔Constant Bit Rate〕 and VBR〔Variable Bit Rate〕to use.
   CBR：32Kbps~8Mbps (the higher the CBR is, the better the video quality is)
   VBR：1(Low)~10(High) – Compression rate, the higher the compression rate, the lower the picture quality is; vise versa. The balance between VBR and network bandwidth will affect picture quality. Please carefully select the VBR rate to avoid picture breaking up or lagging.
2. Video Frame Rate
   The video refreshing rate per second is 30fps.
3. GOP Size
   It means "Group of Pictures". The higher the GOP is, the better the quality is.
4. Video Format：H.264 or MPEG4 or MJPEG
5. RTSP Path: RTSP output connecting

c. Streaming 2 Basic Mode：



1. Resolution：
   There are 5 resolutions can be chosen.
   1280x800@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps
2. Quality：
   There are 5 levels to adjust:
   Best/ High/ Standard/ Medium/ Low
   The higher the quality is, the bigger the file size is. Also not good for internet transmitting
3. Video Frame Rate：The video refreshing rate per second.
4. Video Format：H.264 or MJPEG or MPEG4
5. RTSP Path: RTSP output connecting route

d. Streaming 2 Advanced Mode：

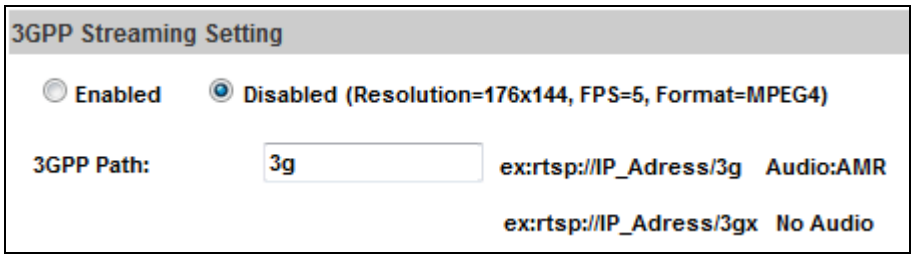


1. Resolution：
   There are 8 resolutions can be chosen.
   1280x800@30fps, 1280x720@30fps, 640x480@30fps, 320x240@30fps, 176x144@30fps
2. Bitrate Control Mode
   There are CBR〔Constant Bit Rate〕 and VBR〔Variable Bit

Rate〕to use.
CBR：32Kbps~8Mbps (the higher the CBR is, the better the video quality is)
VBR：1~10 (Compression Rate)

3. Video Frame Rate
   The video refreshing rate per second.
4. GOP Size
   It means "Group of Pictures". The higher the GOP is, the better the quality is.
5. Video Format：H.264 or MJPEG or MPEG4
6. RTSP Path: RTSP output name

e. 3GPP Streaming mode:



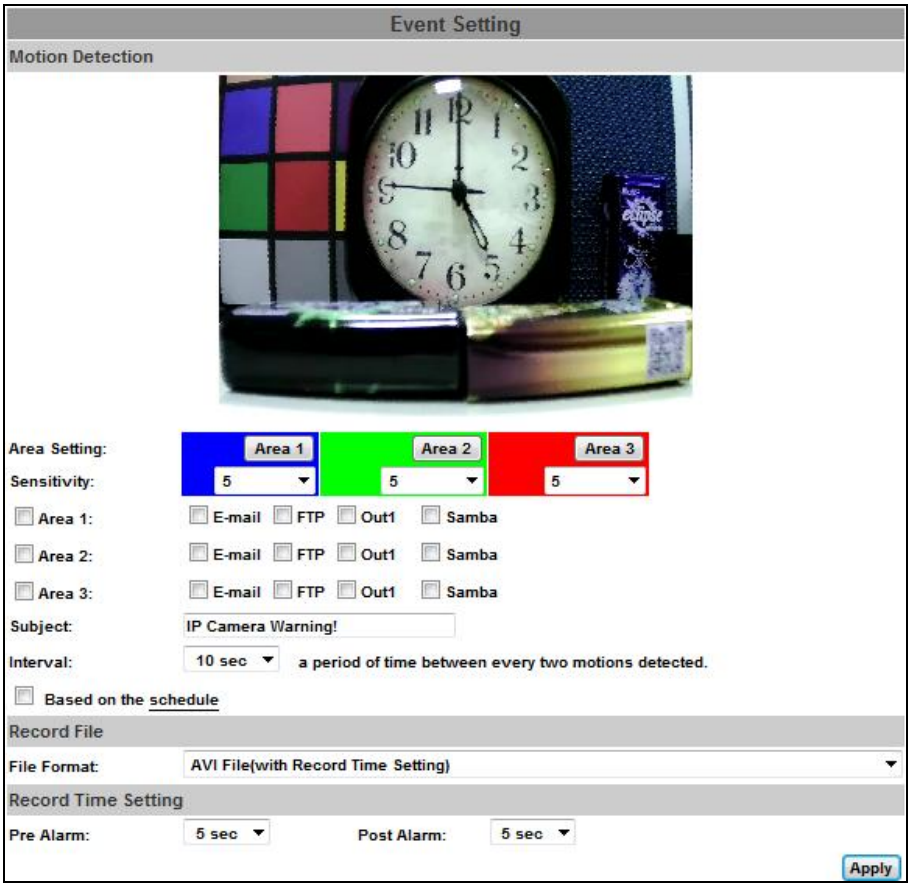
3GPP mode suggested setting: 176x144 resolution, 5FPS, MPEG4 format

1. Enable or Disable 3GPP Streaming
2. 3GPP: 3GPP output name

D.Event List

IP CAMERA provides multiple event settings.

i、 Event Setting



a. Motion Detection：

IP CAMERA allows 3 areas motion detection. When motion is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD card. To set up the motion area, click “Area Setting”. Using mouse to drag and draw the area. The same operation for area 2 and 3.

b. Record File Setting: IP CAMERA allows 3 different types of recording file to change its record size.

When motion/alarm is triggered, there are 3 different types of record mode.

1. AVI File (With Record File Setting)
2. Multi-JPEG (With Record File Setting), only with JPEG compression format.

3. Single JPEG (Single File with Interval Setting)

c. Record Time Setting：

Pre Alarm and Post Alarm setups for video start and end time when motion detected, I/O, or other devices got triggered.

Note: Pre/Post Alarm record time is base on record time setting and IP Cam built-in Ram memory. Limited by IP Cam built-in Ram Memory, When information is too much or video quality set too high, it will cause recording frame drop or decrease on post alarm recording time.

d. Network Dis-connected：

When the network is down, it will save the video to local SD card.

This function is only enabled in wire connection.

e. Network IP check

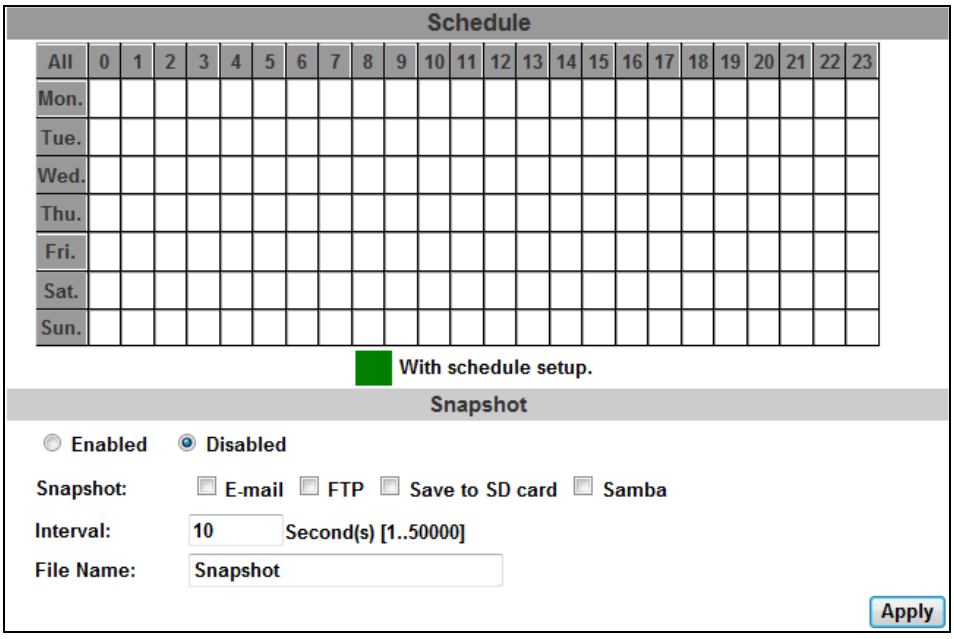
When the connection is down, it records the video to SD card. Make sure the video recording is continuous. To use this function, key in the IP address of the PC which has recording software installed. Enable the function of “Save to SD card”, then click “Apply”.

The interval of two video files on SD card is fixed with 30 seconds.

ii、 Schedule

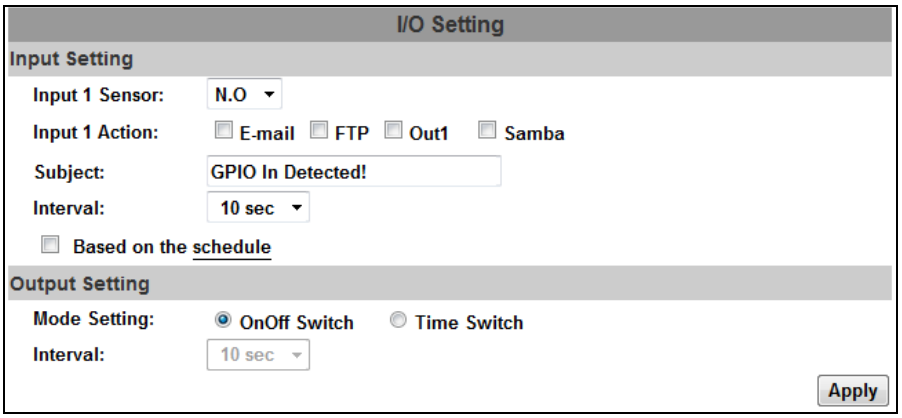
a. Schedule: After complete the schedule setup, the camera data will be recorded according to the schedule setup.

b. Snapshot: After enable the snapshot function, user can select the storage position of snapshot file, the interval time of snapshot and the reserved file name of snapshot.



iii、 I/O Setting

IP CAMERA supports 1 input/ 1 output. When input is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD card and Samba.



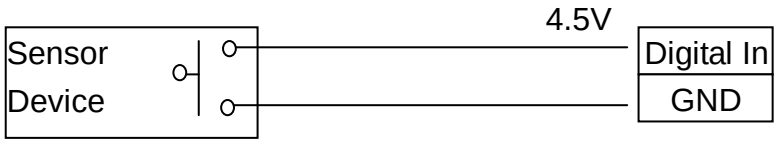
CAUTION!!

Please connect to propriety relay box to reduce the risk of electric shock & damaged.

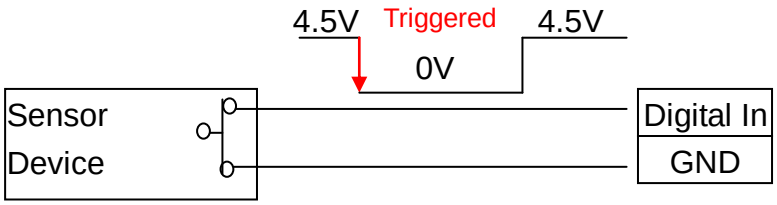
Alarm Input Setting

By GPIO I/O port input that provide related action while I/O input triggered.

(1) Non-Triggered



(2) Triggered



Digital Output Setting

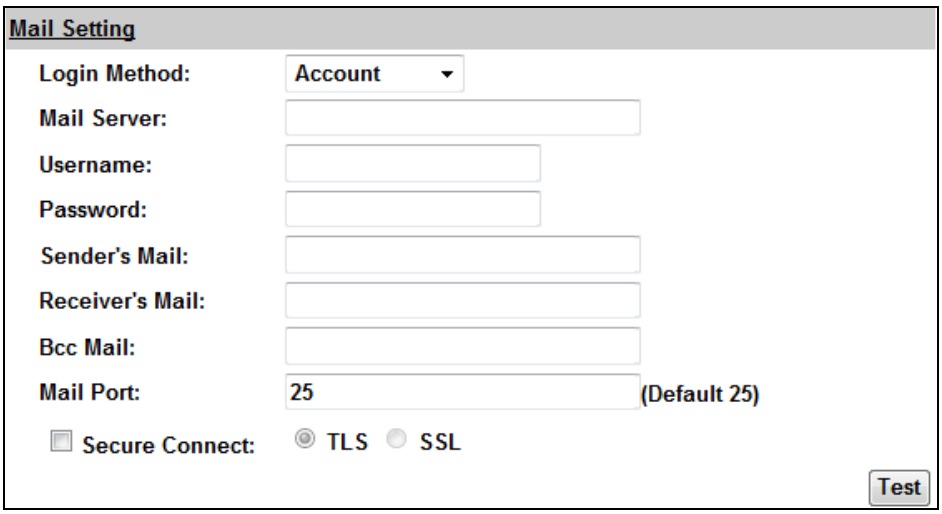
In Digital output setting, the user can setup the output device to perform the related output action.

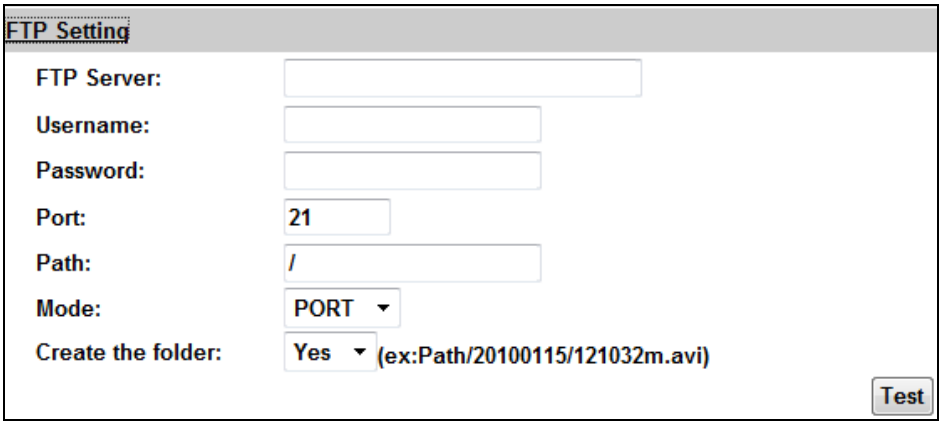
I/O PIN definition, please refer to the following statement

Default	Default: Connect “Default” and “GND” two pins.
GND	
D.O	Digital Input: Standard Voltage: 5V (internal Voltage) Connect “Digital Input” and “GND” two pins.
GND	
D.I	Digital Output: Depends on the devices, the user should connect Relay device first.

Mail & FTP

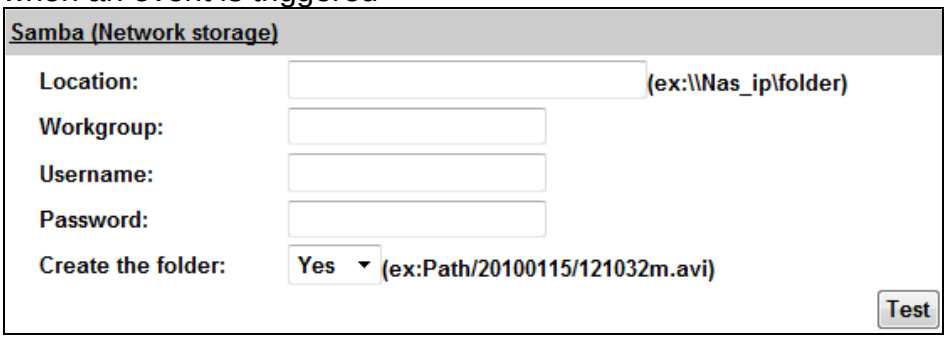
To send out the video via mail of ftp, please set up the configuration first.





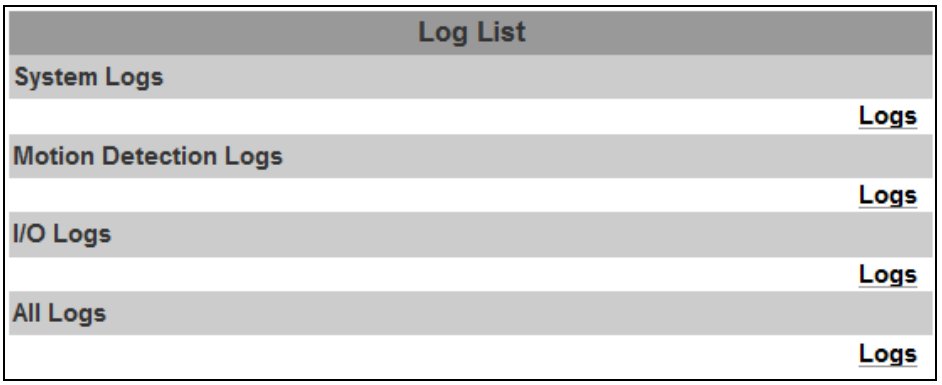
iv、 Samba

Select this option to send the media files via a network neighborhood when an event is triggered



v、 Log List

Sort by System Logs, Motion Detection Logs and I/O Logs. In addition, System Logs and I/O Logs won't lose data due to power failure.



vi、 Micro SD card(option)

The SD card manual install is only provide for the indoor type camera, Please Insert Micro SD card before use it. Make sure pushing SD card into the slot completely.

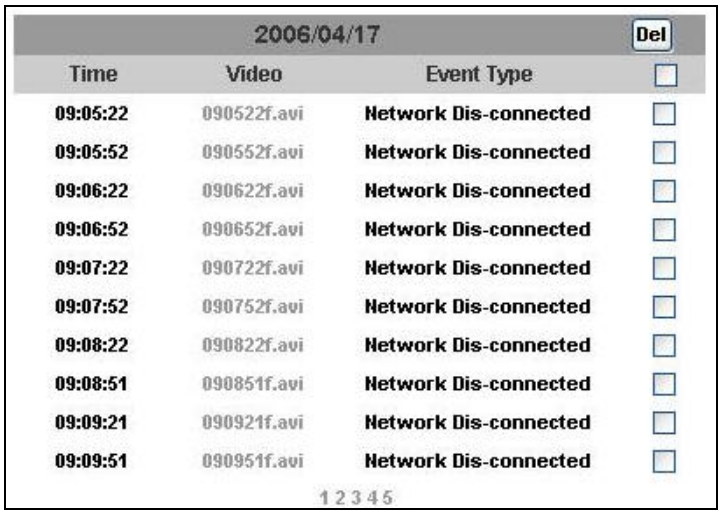
If you are using the outdoor water proof type camera, The SD card is not support install from user.

Note：

The use of the SD card will affect the operation of the IP CAMERA slightly, such as affecting the frame rate of the video.

a. Playback：

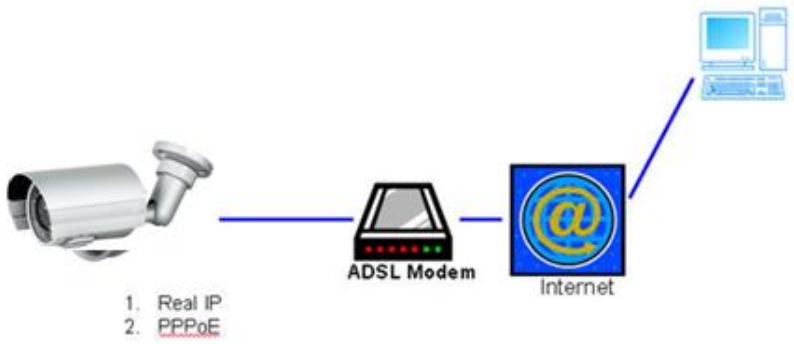
1. It will show the capacity of the SD card. Click the date listed on this page. It will show the list of the video.



2. The video format is AVI. Click the video to start Microsoft Media Player to play it.
3. To delete the video, check it, then click Del. When the SD card is full, it will remove the oldest video automatically.

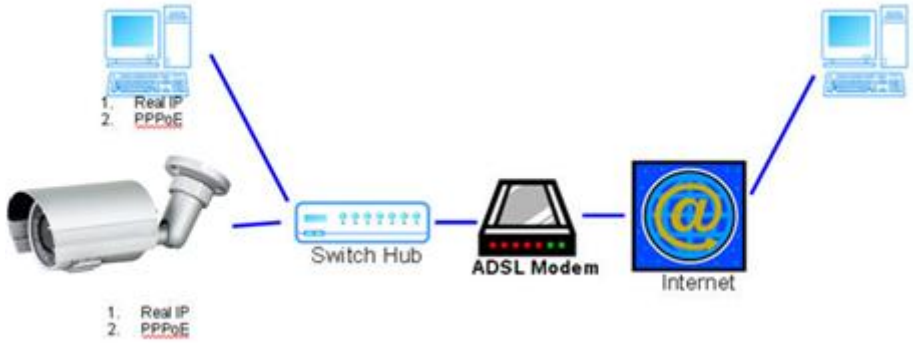
VI. Network Configuration

i、 Configuration 1：



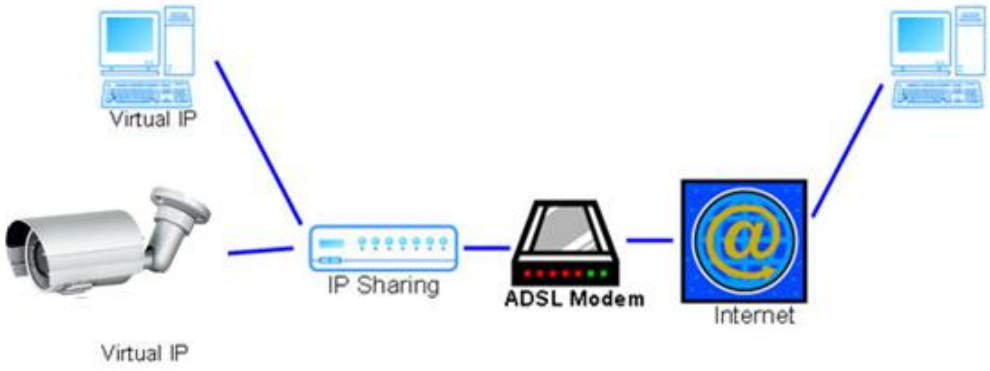
a. Internet Access：ADSL or Cable Modem
b. IP address：One real IP or one dynamic IP
c. Only IP CAMERA connects to the internet
d. For fixed real IP, set up the IP into IP CAMERA. For dynamic IP, start PPPoE.

ii、 Configuration 2：



a. Internet Access：ADSL or Cable Modem
b. IP address：More than one real IP or one dynamic IP
c. IP CAMERA and PC connect to the internet
d. Device needed：Switch Hub
e. For fixed real IP, set up the IP into IP CAMERA and PC. For dynamic IP, start PPPoE.

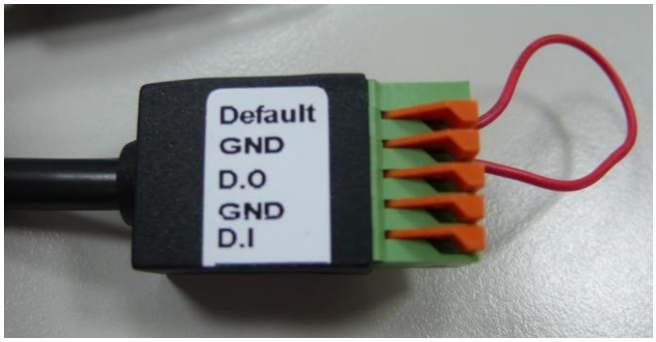
iii、 Configuration 3：



a. Internet Access：ADSL or Cable Modem
b. IP address：one real IP or one dynamic IP
c. IP CAMERA and PC connect to the internet
d. Device needed：IP sharing
e. Use virtual IP, set up port forwarding in IP sharing.

VII. Factory Default

1. Put one side of electric wire in to “Default”.
2. Put the other side of electric wire in to “GND”.
3. Plug power cable.
4. When camera starts again, remove the electric wire and plug Ethernet cable for new setting.
5. Re-login the camera using the default IP (http://192.168.1.200), and user name (admin), password (admin).



VIII. Package contents

- IP CAMERA Network Camera
- Adaptor
- Ethernet Cable
- CD title (User manual, IP installation Utility)